

**Amendments to the Specification:**

On page 1, line 19, please delete “therapeutic”.

On page 4, line 26, please delete “diabetic cardiomyopathy”.

On page 7, line 15, please delete “optimization” and substitute therefor: —optimization—.

Please replace the Abstract with the following Abstract:

~~--The invention relates to~~ Provided is a method for the effective treatment of diseases associated with a deterioration of the macrocirculation, microcirculation and organ perfusion to achieve an improvement of the local environment and the metabolic situation and to aim at the improvement of organ function or the stabilization of organ function with imminent functional deterioration, which ~~comprises~~ involves the treatment of blood of patients by extracorporeal plasmapheresis.—

The replacement Abstract is attached as Exhibit A.